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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,280	07/14/2003	James F. Rieke	H063070003	7461
37462 7	590 03/13/2006		EXAMINER	
LOWRIE, LANDO & ANASTASI			WEIER, ANTHONY J	
RIVERFRONT	r office Treet, eleventh floc	OR .	ART UNIT	PAPER NUMBER
CAMBRIDGE			1761	

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/619,280	RIEKE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Anthony Weier	1761	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
	DIVIO OFT TO EVOIDE 4 M	IONTHICS OF THEFTY (20) DAYS	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a . riod will apply and will expire SIX (6) MON atute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on _	·		
2a) This action is FINAL . 2b)	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal mat	ers, prosecution as to the merits is	;
closed in accordance with the practice und	er <i>Ex par</i> te Quayle, 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims	•		
4)⊠ Claim(s) <u>1-24</u> is/are pending in the applicat	tion.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-24</u> are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b)□ objected to	by the Examiner.	
Applicant may not request that any objection to	- · · ·		
Replacement drawing sheet(s) including the cor			d).
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1.☐ Certified copies of the priority docum	ents have been received.		
2. Certified copies of the priority docum	ents have been received in A	opplication No	
3. Copies of the certified copies of the	oriority documents have been	received in this National Stage	
application from the International Bu	,		
* See the attached detailed Office action for a	list of the certified copies not	received.	
Attachment(s)	_		
1)	· —	Summary (PTO-413) s)/Mail Date	
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	·	nformal Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-8, drawn to a method of processing a mixed-phase stream,
 classified in class 159, subclass 47.1.
- II. Claims 9 and 10, drawn to a method of increasing solids concentration in a biomaterial stream, classified in class 426, subclass 478.
- III. Claims 11-14, drawn to a system for processing a biomaterial stream, classified in class 159, subclass 26.1.
- IV. Claims 15-17, drawn to a system for processing grain comprising, classified in class 99, subclass 537.
- V. Claims 18-20, drawn to a system for processing grain, classified in class 99, subclass 570.
- VI. Claims 21-24, drawn to a method of improving heat transfer properties in a heat exchanger, classified in class 165, subclass 96.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, III, and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to a method of processing a mixed-phased stream and a method of increasing solids concentration in a biomaterial stream, an apparatus

for processing a biomaterial stream, and a method of improving heat transfer properties in a heat exchanger, wherein same all have different modes of operation and effects.

Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to a method of processing a mixed-phased stream and an apparatus for processing a biomaterial material wherein same have different modes of operation and effects.

Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to a method of processing a mixed-phased stream and an apparatus for processing grain wherein same have different modes of operation and effects.

Inventions II and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to a method for increasing solids concentration in a biomaterial stream and a system for processing grain wherein same have different modes of operation and effects.

Inventions IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs,

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modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to an apparatus involving fermentation, distillation, evaporation, and concentration and an apparatus that relates to grinding, germ separation, and filtration wherein same have different effects.

Inventions IV and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to an apparatus involving fermentation, distillation, evaporation, and concentration and a method for improving heat transfer properties in a heat exchanger wherein same have different effects..

Inventions V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions relate to an apparatus involving processing of grain and a method for improving heat transfer properties in a heat exchanger wherein same have different effects.

Inventions II and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process may be practiced using a different apparatus such as one not having a grain fermentation unit and/or concentrator unit.

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Inventions III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed such as a biomaterial source in combination with a heater (the apparatus of Group IV does not positively recite the combination of a biomaterial with the apparatus). The subcombination has separate utility such as the treatment of material that does not require fermentation, evaporation, and distillation.

Inventions III and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed such as a biomaterial source in combination with a heater (the apparatus of Group V does not positively recite the combination of a biomaterial with the apparatus). The subcombination has separate utility such as the treatment of material that does not require grinding, germ separation, and filtration.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Weier whose telephone number is 571-272-1409. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on 571-272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anthony Weier March 7, 2006

Anthony Weier Primary Examiner

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